

117TH CONGRESS  
1ST SESSION

# S. 2310

To require the Secretary of Energy to conduct a study regarding codes and standards for use of energy storage systems across sectors and demonstrate certain second-life applications of electric vehicle batteries, and for other purposes.

---

IN THE SENATE OF THE UNITED STATES

JULY 12, 2021

Mr. KING introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

---

## A BILL

To require the Secretary of Energy to conduct a study regarding codes and standards for use of energy storage systems across sectors and demonstrate certain second-life applications of electric vehicle batteries, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-*  
2       *tives of the United States of America in Congress assembled,*

1     **SECTION 1. STUDY OF CODES AND STANDARDS FOR USE OF**  
2                 **ENERGY STORAGE SYSTEMS ACROSS SEC-**  
3                 **TORS.**

4     (a) **IN GENERAL.**—The Secretary shall conduct a  
5     study of types and commercial applications of codes and  
6     standards applied to—

7                 (1) stationary energy storage systems;  
8                 (2) mobile energy storage systems; and  
9                 (3) energy storage systems that move between  
10         stationary and mobile applications, such as electric  
11         vehicle batteries or batteries repurposed for new ap-  
12         plications.

13     (b) **PURPOSES.**—The purposes of the study con-  
14     ducted under subsection (a) shall be—

15                 (1) to identify barriers, foster collaboration, and  
16         increase conformity across sectors relating to—  
17                     (A) use of emerging energy storage tech-  
18                     nologies; and

19                     (B) use cases, such as vehicle-to-grid inte-  
20                     gration;

21                 (2) to identify all existing codes and standards  
22         that apply to energy storage systems;

23                 (3) to identify codes and standards that require  
24         revision or enhancement;

25                 (4) to enhance the safe implementation of en-  
26         ergy storage systems; and

1                             (5) to receive formal input from stakeholders  
2                             regarding—

3                                 (A) existing codes and standards; and  
4                                 (B) new or revised codes and standards.

5                             (c) CONSULTATION.—In conducting the study under  
6 subsection (a), the Secretary shall consult with all relevant  
7 standards-developing organizations and other entities with  
8 expertise regarding energy storage system safety.

9                             (d) REPORT.—Not later than 18 months after the  
10 date of enactment of this Act, the Secretary shall submit  
11 to Congress a report describing the results of the study  
12 conducted under subsection (a).

13 **SEC. 2. DEMONSTRATION OF ELECTRIC VEHICLE BATTERY**  
14                             **SECOND-LIFE APPLICATIONS FOR GRID**  
15                             **SERVICES.**

16                             Section 3201(c) of the Energy Act of 2020 (42  
17 U.S.C. 17232(c)) is amended—

18                                 (1) in paragraph (1)—

19                                 (A) by striking the period at the end and  
20                                 inserting “; and”;

21                                 (B) by striking “including at” and insert-  
22                                 ing the following: “including—

23                                 “(A) at”; and

24                                 (C) by adding at the end the following:

1                 “(B) 1 project to demonstrate second-life  
2                 applications of electric vehicle batteries as ag-  
3                 gregated energy storage installations to provide  
4                 services to the electric grid, in accordance with  
5                 paragraph (3).”;

6                 (2) by redesignating paragraphs (3) and (4) as  
7                 paragraphs (4) and (5), respectively; and  
8                 (3) by inserting after paragraph (2) the fol-  
9                 lowing:

10                 “(3) DEMONSTRATION OF ELECTRIC VEHICLE  
11                 BATTERY SECOND-LIFE APPLICATIONS FOR GRID  
12                 SERVICES.—

13                 “(A) IN GENERAL.—The Secretary shall  
14                 enter into an agreement to carry out a project  
15                 to demonstrate second-life applications of elec-  
16                 tric vehicle batteries as aggregated energy stor-  
17                 age installations to provide services to the elec-  
18                 tric grid.

19                 “(B) PURPOSES.—The purposes of the  
20                 project under subparagraph (A) shall be—

21                 “(i) to demonstrate power safety and  
22                 the reliability of the applications dem-  
23                 onstrated under the program;

24                 “(ii) to demonstrate the ability of  
25                 electric vehicle batteries—

6                         “(iii) to extend the useful life of elec-  
7                         tric vehicle batteries and the components  
8                         of electric vehicle batteries prior to the col-  
9                         lection, recycling, and reprocessing of the  
10                        batteries and components; and

“(iv) to increase acceptance of, and participation in, the use of second-life applications of electric vehicle batteries by utilities.

15                         “(C) PRIORITY.—In selecting a project to  
16 carry out under subparagraph (A), the Sec-  
17 retary shall give priority to projects in which  
18 the demonstration of the applicable second-life  
19 applications is paired with 1 or more facilities  
20 that could particularly benefit from increased  
21 resiliency and lower energy costs, such as a  
22 multi-family affordable housing facility, a senior  
23 care facility, and a community health center.”.

